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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/712,305	11/14/2003	Hiroyuki Kita	43890-646	8872
75	90 02/14/2006		EXAMINER	
MCDERMOTT, WILL & EMERY			BUDD, MARK OSBORNE	
600 13th Street, Washington, D			ART UNIT	PAPER NUMBER
· · · · · · · · · · · · · · · · · · ·			2834	
			DATE MAILED: 02/14/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/712,305	KITA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Mark Budd	2834	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence addr	ess
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	B DATE OF THIS COMMUNIC R 1.136(a). In no event, however, may a control of the co	CATION. reply be timely filed ITHS from the mailing date of this com BANDONED (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on 0.	3 January 2006.		
2a) This action is FINAL . 2b)⊠ T	his action is non-final.		
3) Since this application is in condition for allo	wance except for formal matt	ers, prosecution as to the n	nerits is
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.D). 11, 453 O.G. 213.	
Disposition of Claims			
 4) Claim(s) 1-10,12 and 14-25 is/are pending and 14-25 is/are pending and 14-25 is/are without solutions. 5) Claim(s) 1,2,10,12 and 14-25 is/are allowed and 5-9 is/are rejected. 7) Claim(s) 4 is/are objected to. 8) Claim(s) are subject to restriction and continuous. 	drawn from consideration.		
Application Papers			
9) The specification is objected to by the Exam 10) The drawing(s) filed on is/are: a) a Applicant may not request that any objection to to the Replacement drawing sheet(s) including the cort 11) The oath or declaration is objected to by the	accepted or b) objected to the drawing(s) be held in abeyar rection is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the p application from the International Bure * See the attached detailed Office action for a least	ents have been received. ents have been received in A riority documents have been eau (PCT Rule 17.2(a)).	pplication No received in this National St	age
Attachment(s) Notice of References Cited (PTO-892)		dummary (PTO-413)	
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date)/Mail Date Iformal Patent Application (PTO-19	52)

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Art Unit: 2834

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim3,5,6/3,7/3,8/3 and 9/3are rejected under 35 U.S.C. 103(a) as being unpatentable over Brown in vie Wada.Bbrown (see figures 8a and 9 and column 15 line 15—column 16line 29)teachers driving a piezoelectric element with a drive signal while simultaneously applying a DC bias voltage to prevent depolarization of the piezoelectric element. This amounts to providing a constant repolarization voltage piezoelectric element Wada(column 3 line19-32;column 7 line 1-61) teachers providing an intermittent repelling voltage to a piezoelectric element. One advantage would be power saving since the bias voltage is not continuously applied. One disadvantage would be that an additional switching means must be provided. What of ordinary skill in the art could easily reconcile these factors for a specific application. Thus, to provide the bias voltage of Brown in an intermediate manner as taught b Wada would have been obvious to one of ordinary skill in the art.

Claim 4and any multiple dependent claims based thereon are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Cclaims 1, 2, 10, 12 and 14-25 are allowed.

Claim*** rejected under 35 U.S.C. 101 because

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Budd whose telephone number is 571-272-2019. The examiner can normally be reached on Mmonday-Thursday from 6 a.m. to 4 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg, can be reached on 571-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mafk Budd
Primary Examiner
Art Unit 2834